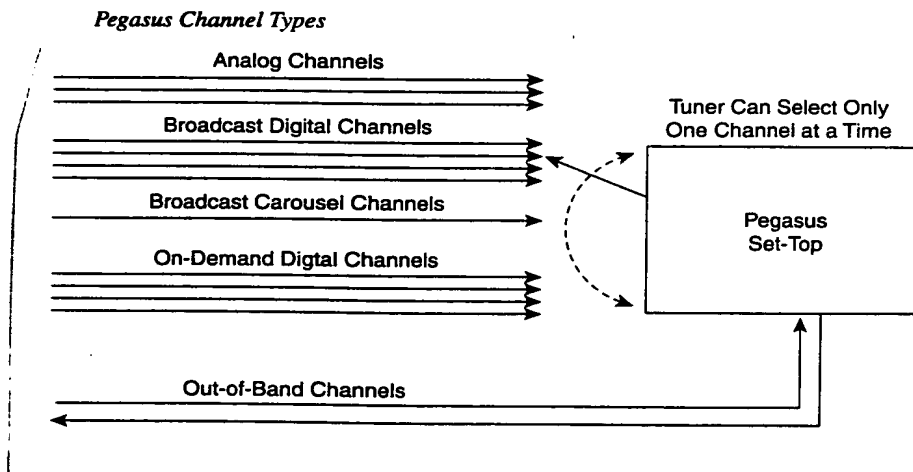
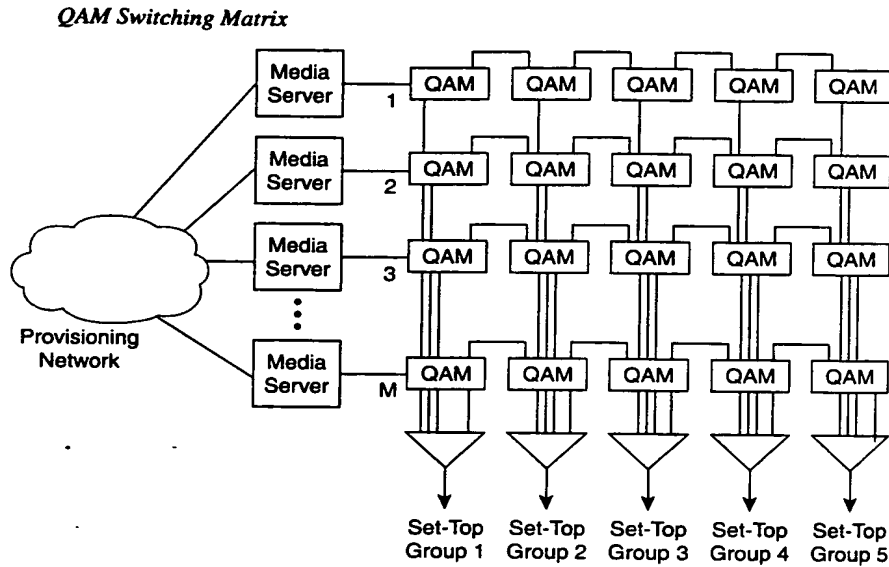


PRIOR ART
TIME WARNER FULL SERVICE NETWORK
PROTOCOL STACK
FIG. 1



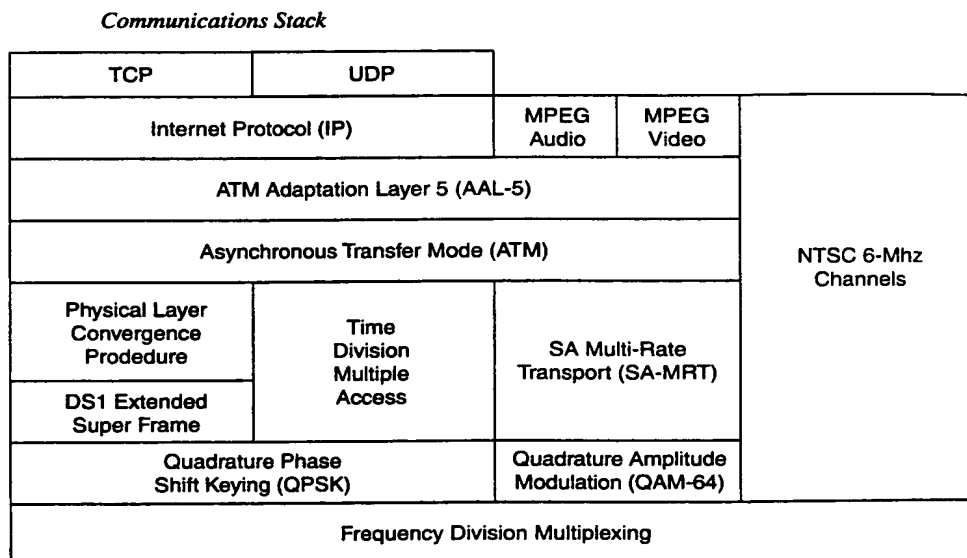
PRIOR ART
PEGASUS 2 CHANNEL TYPES
FIG. 2



PRIOR ART.

PEGASUS 2 QAM SWITCHING MATRIX
TO IMPLEMENT MPEG-2 TRANSPORT SWITCH

FIG. 3



PRIOR ART

FSN COMMUNICATION PROTOCOL STACK
MPEG DELIVERED OVER ATM SWITCHED NETWORK

FIG. 4

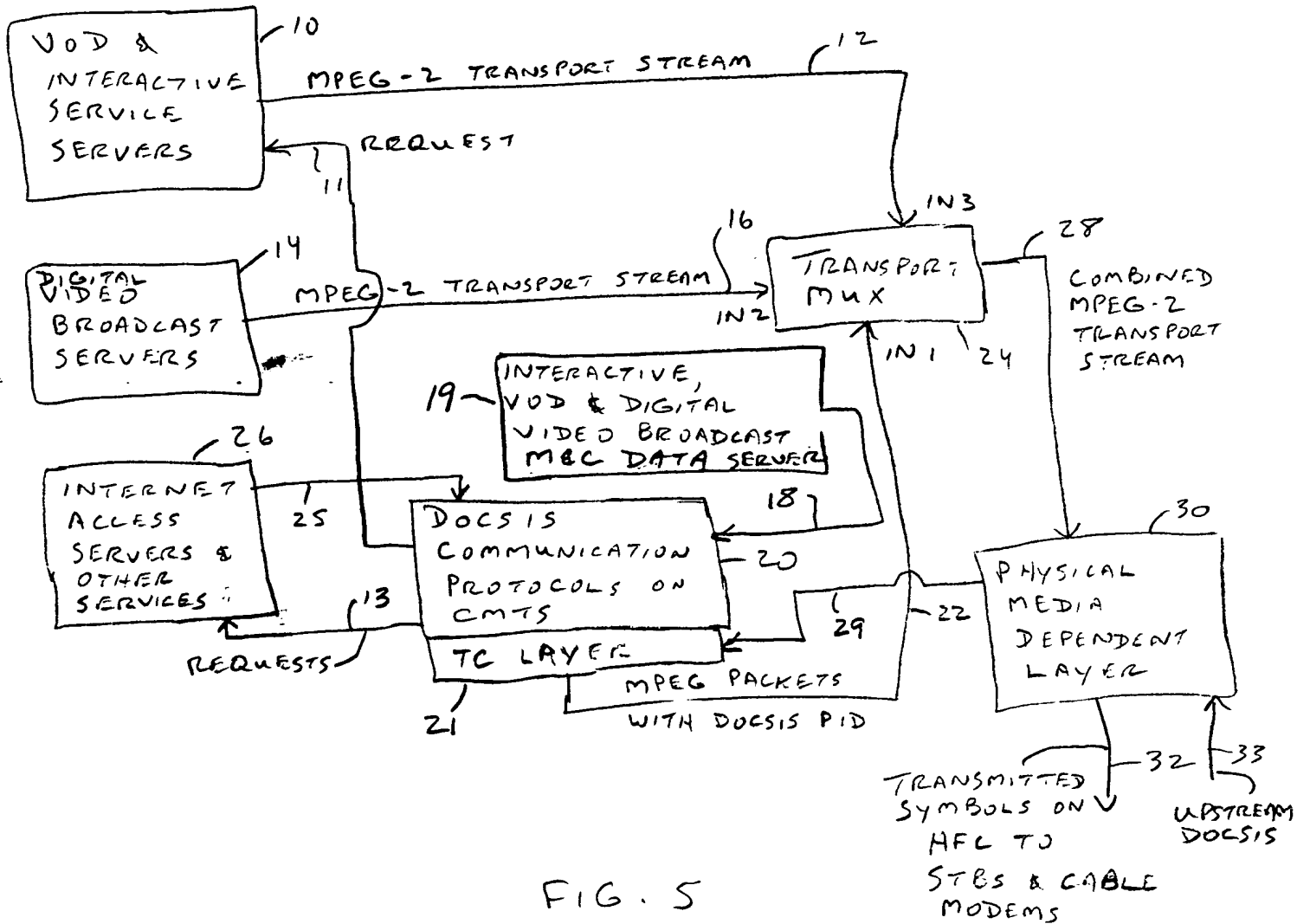


FIG. 5

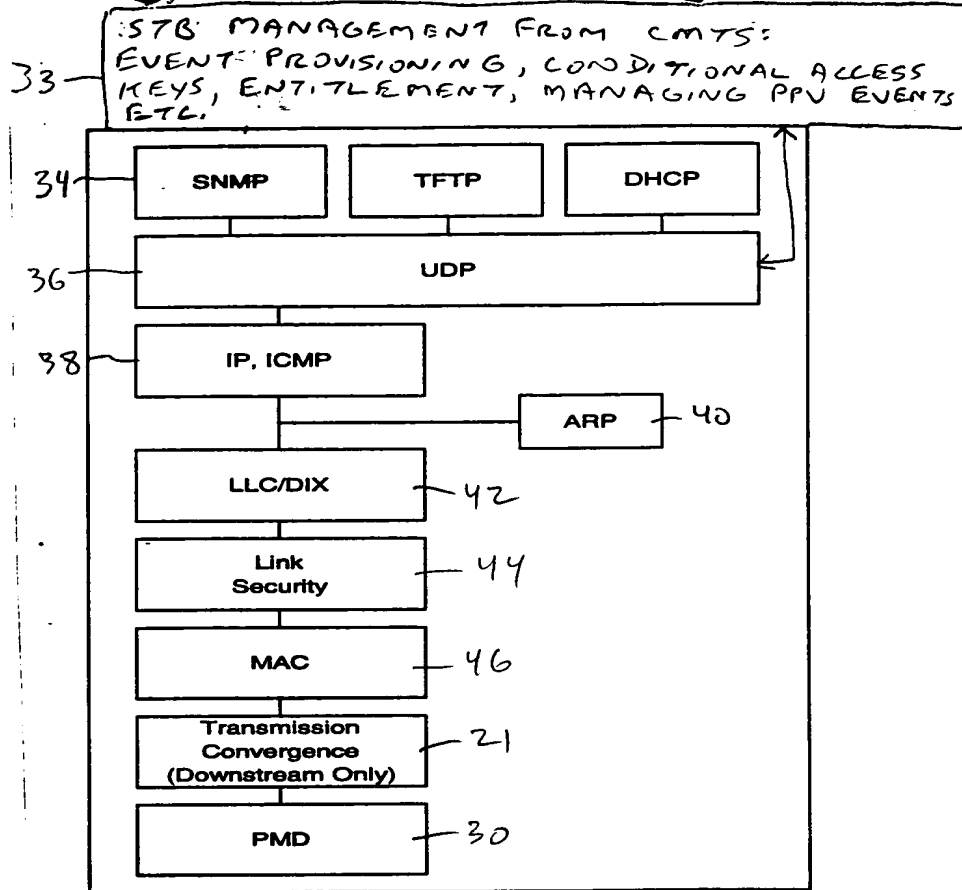


FIG. 6

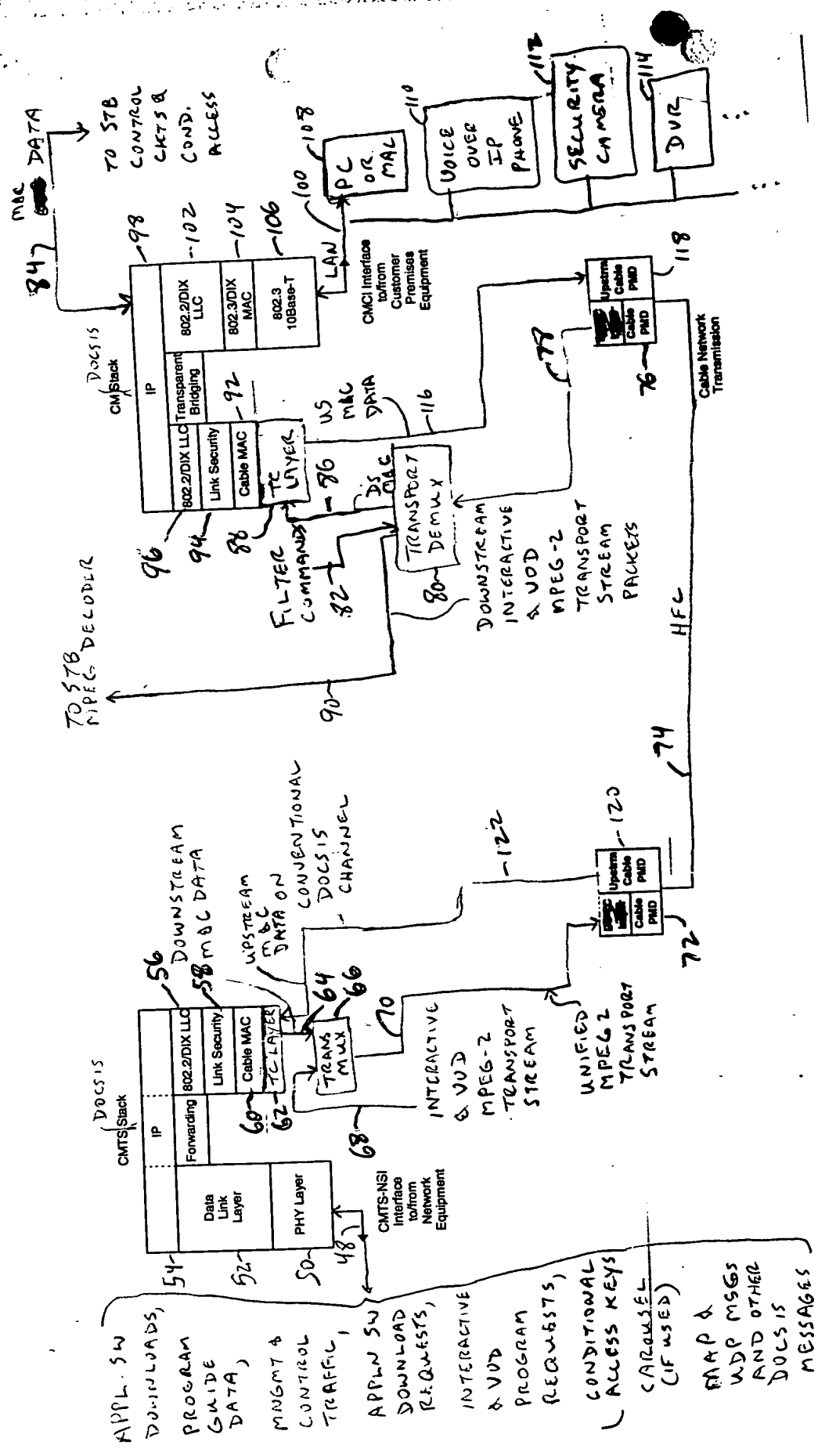


FIG. 7

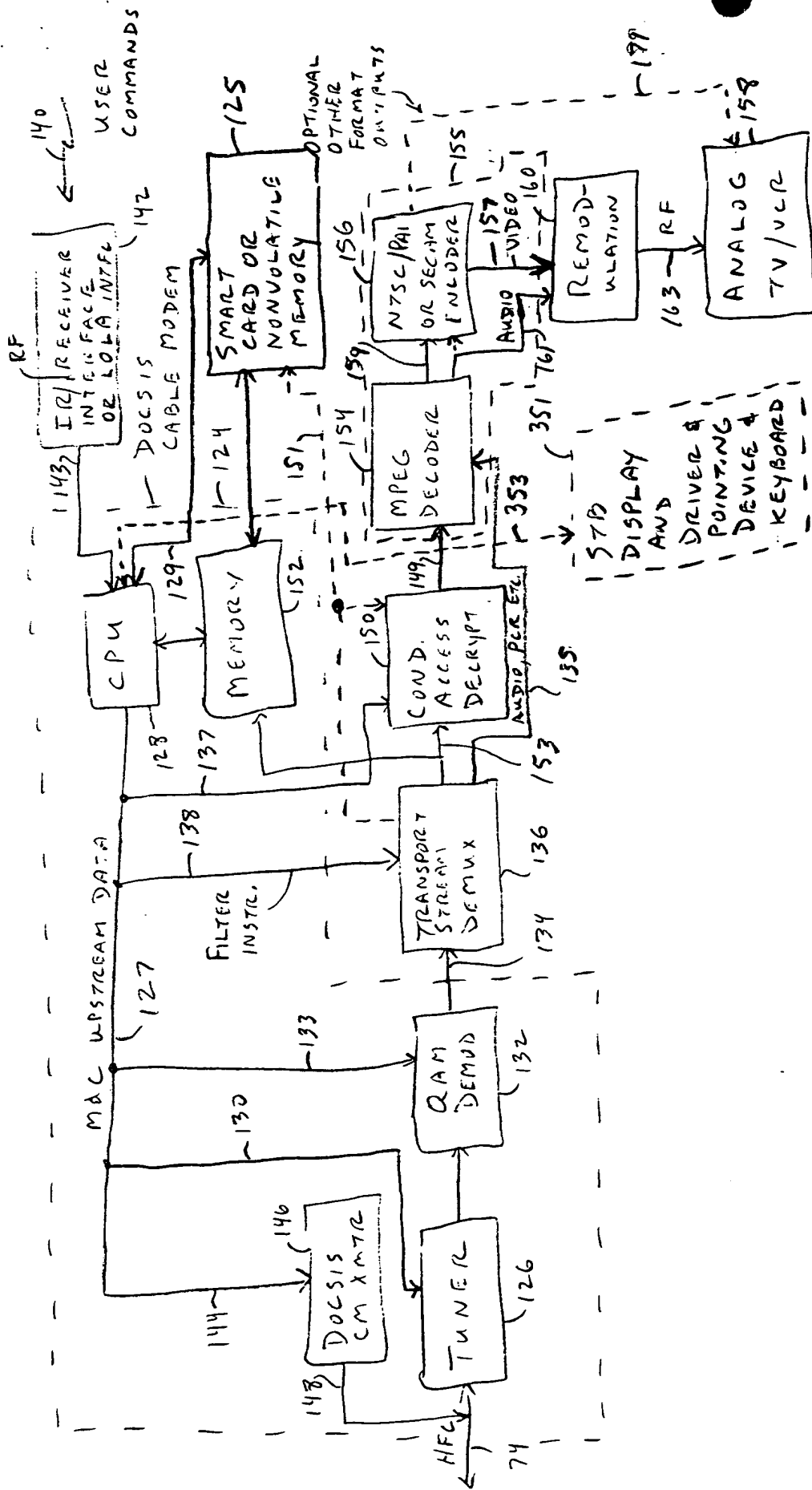
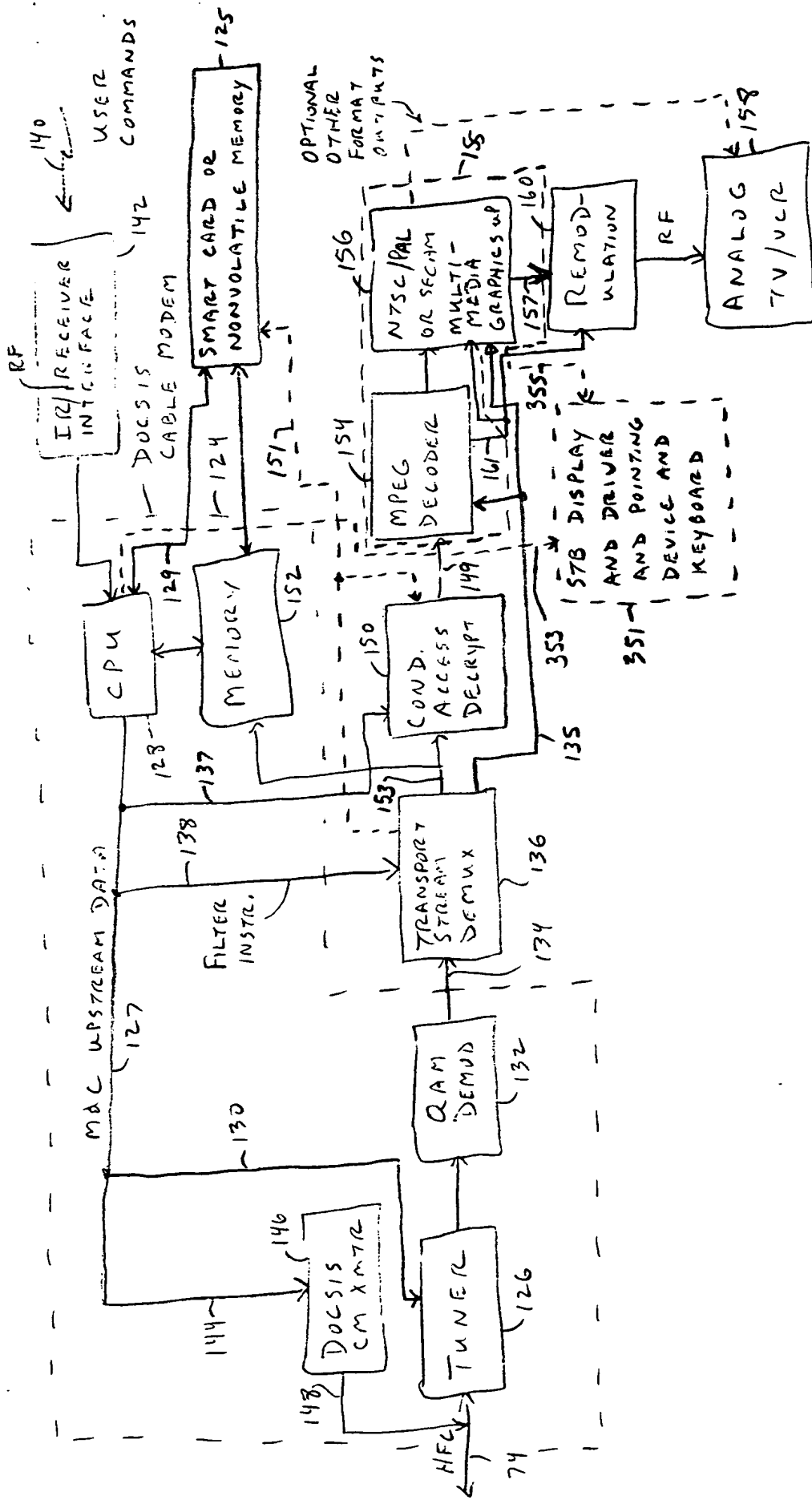


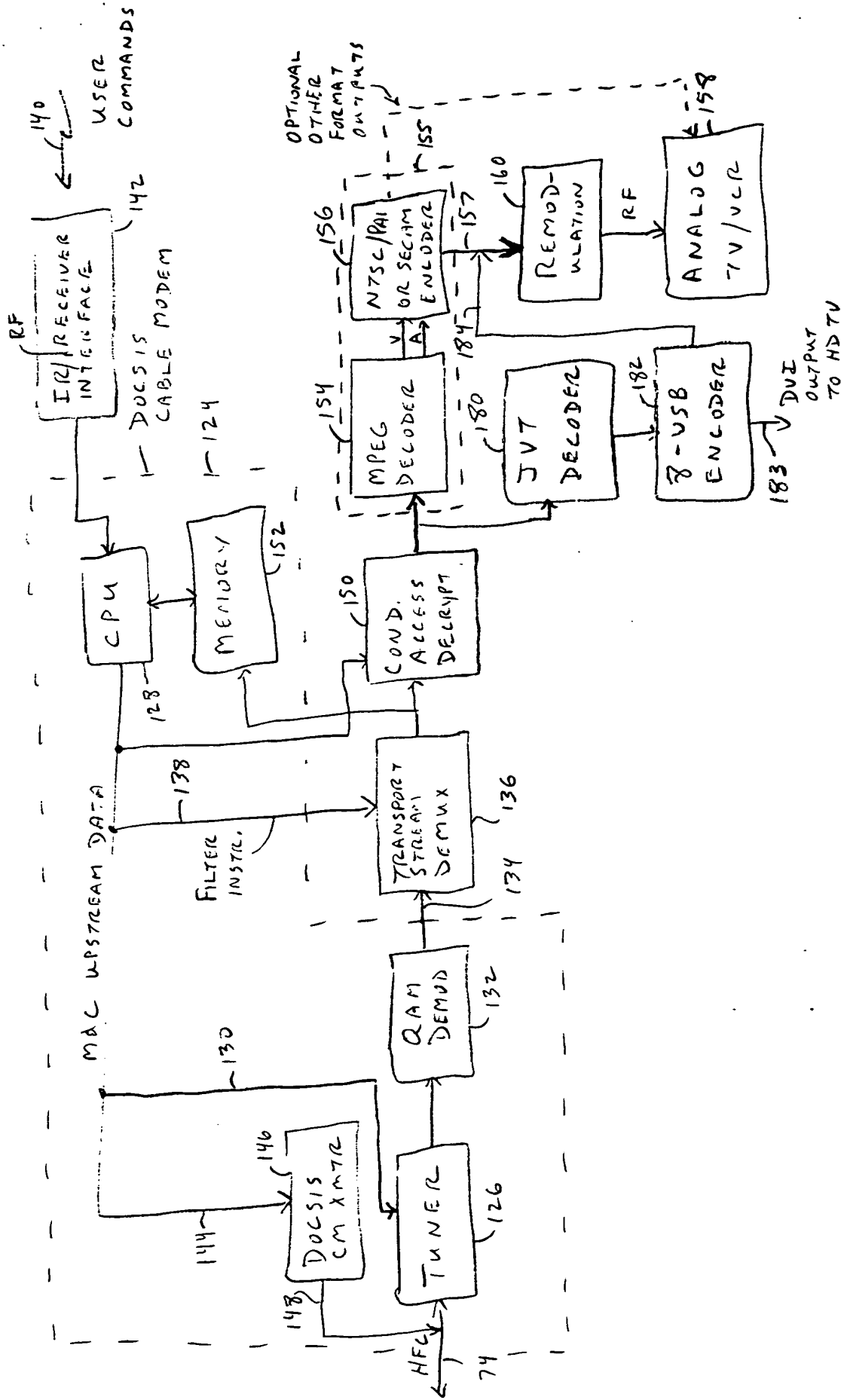
FIG. 8

SIMPLE STB FOR DOCSIS MAC CHANNEL

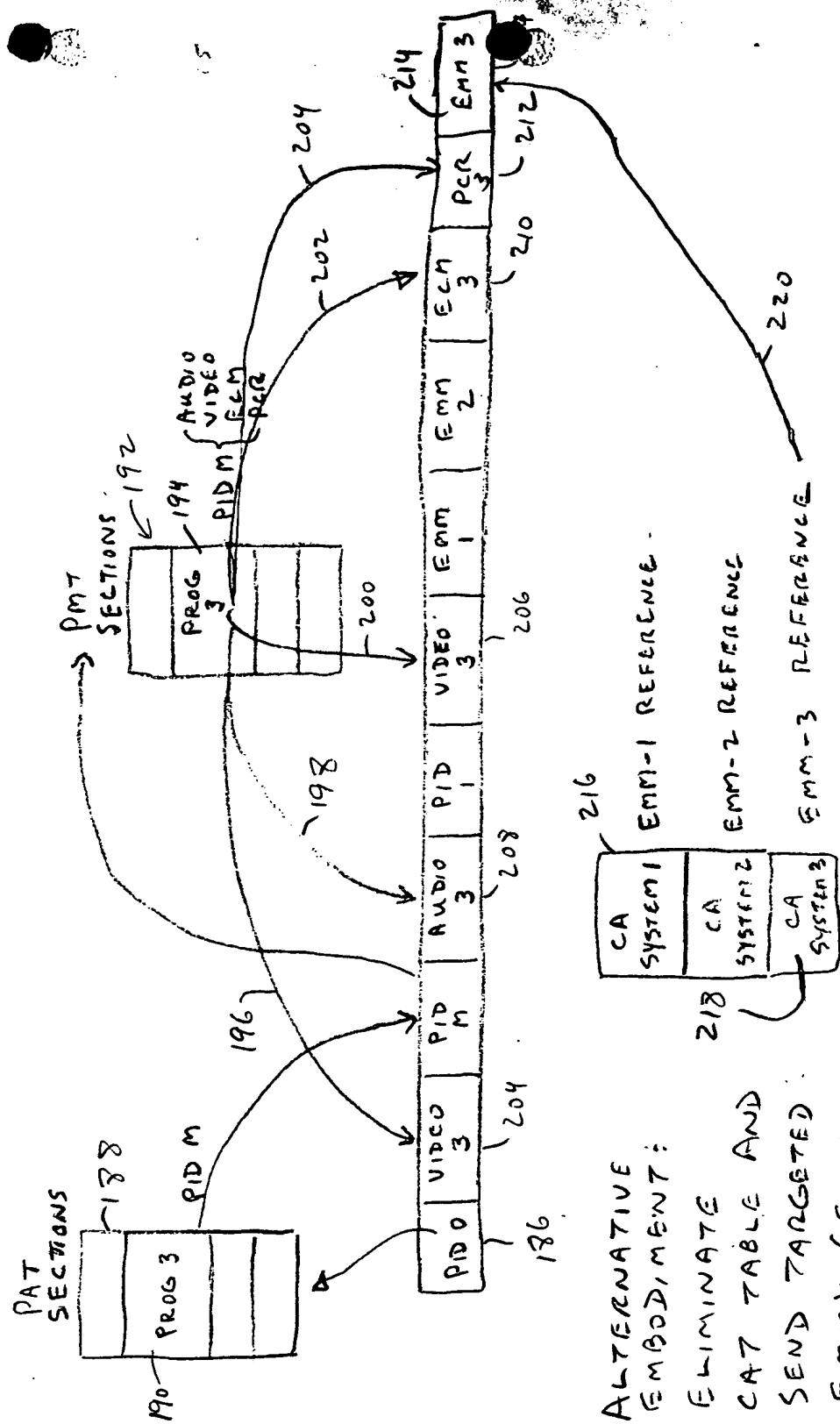


SIMPLE STB FOR DOCSIS MAC CHANNEL

FIG. 9



SIMPLE STB FOR DOCSIS MAC CHANNEL
FIG. 11



ALTERNATIVE EMBODIMENT:

ELIMINATE

CA7 TABLE AND

SEND TARGETED

EMM's (ENCRYPTED)

ONLY TO SGO'S THAT
REQUEST THEM

PROCESS FOR PROVIDING MANAGEMENT AND CONTROL DATA IN-BAND
ON AN MPEG MULTIPLEX ON THE DOCSIS PID

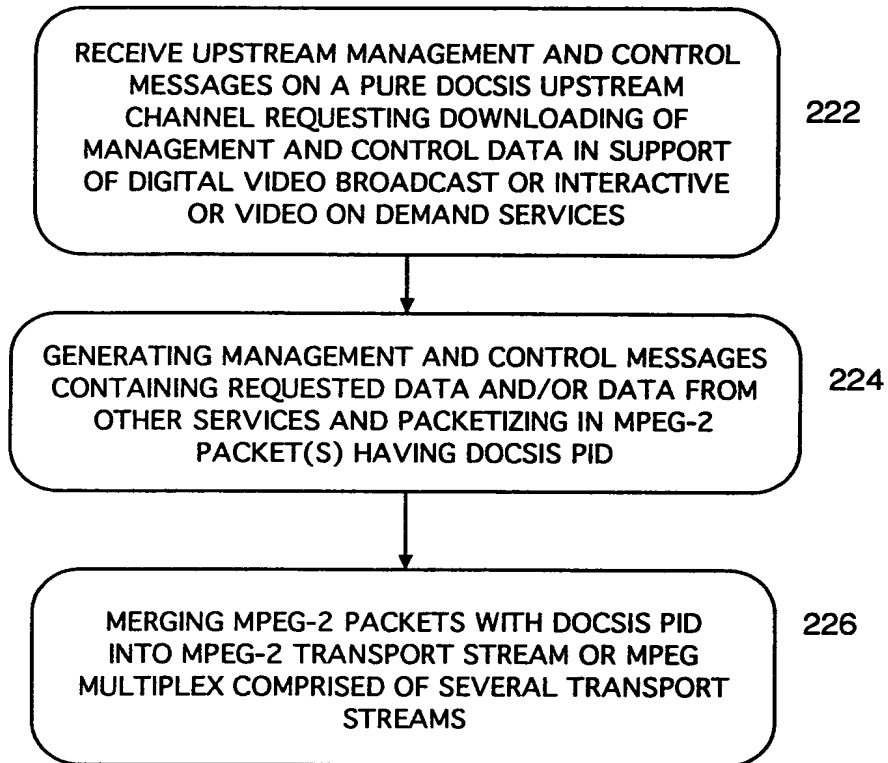


FIG. 13

PROCESS FOR PROVIDING TARGETED CONDITIONAL ACCESS DATA
IN-BAND ON AN MPEG MULTIPLEX WITHOUT USING
A DATA CAROUSEL

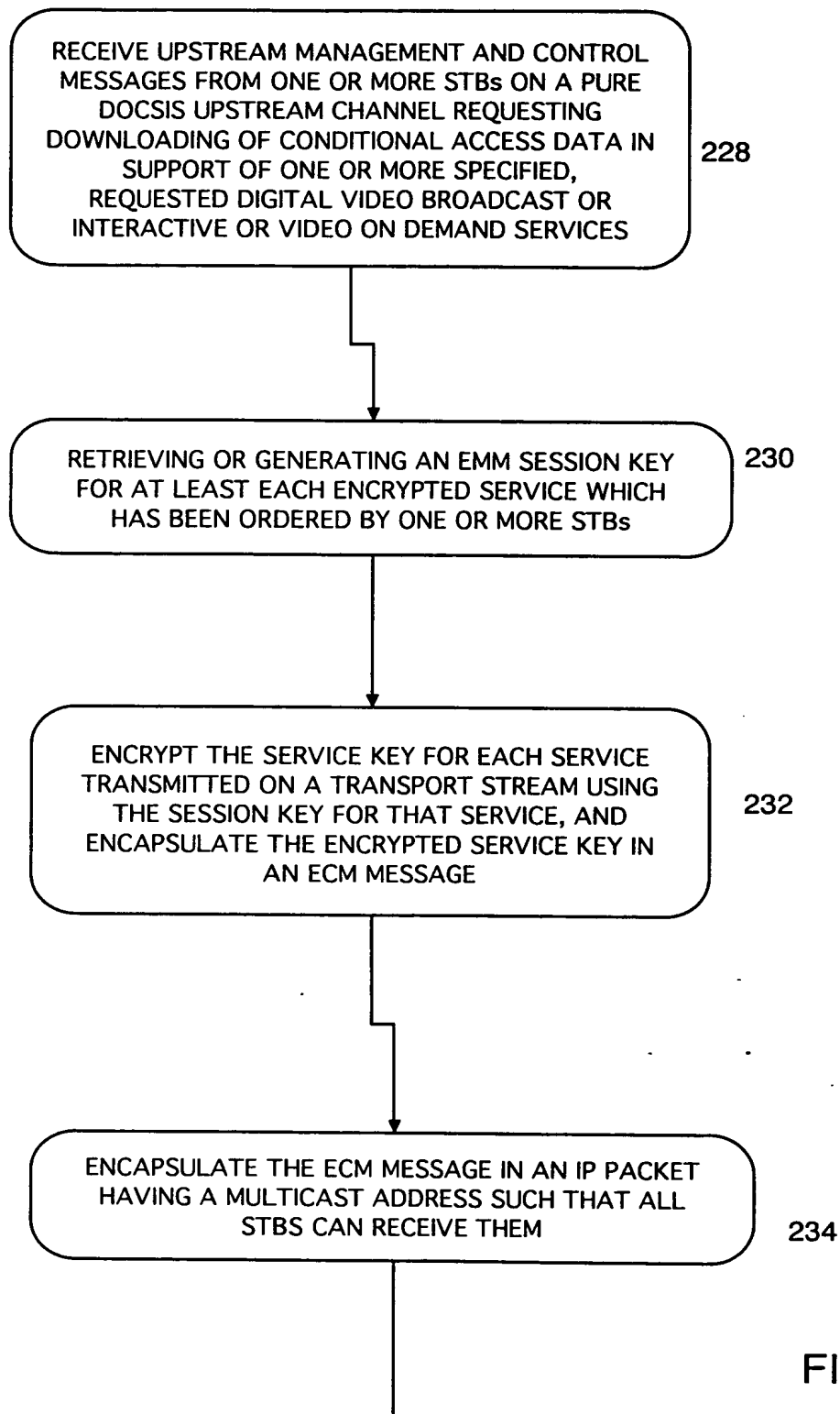


FIG. 14A

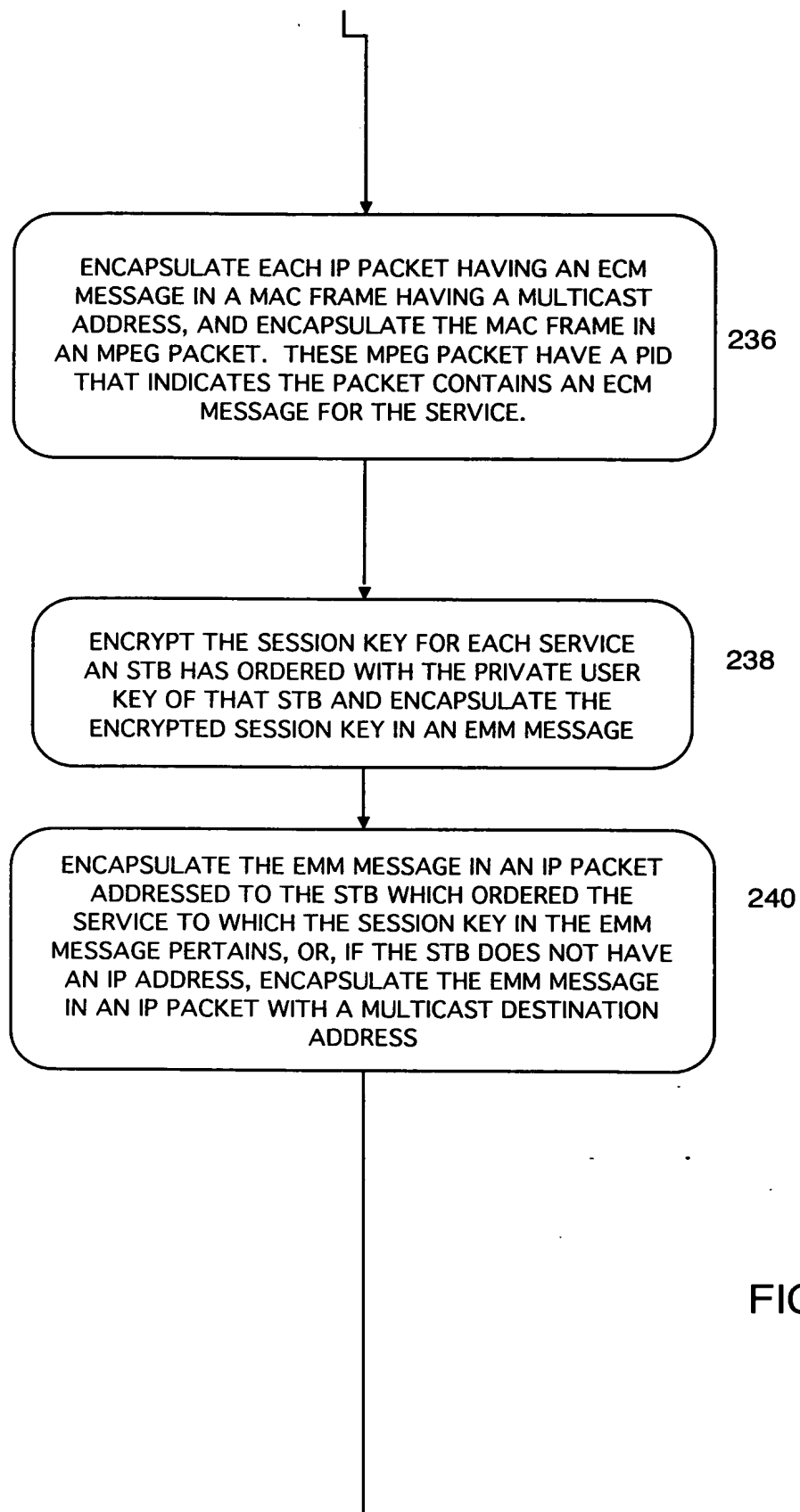


FIG. 14B

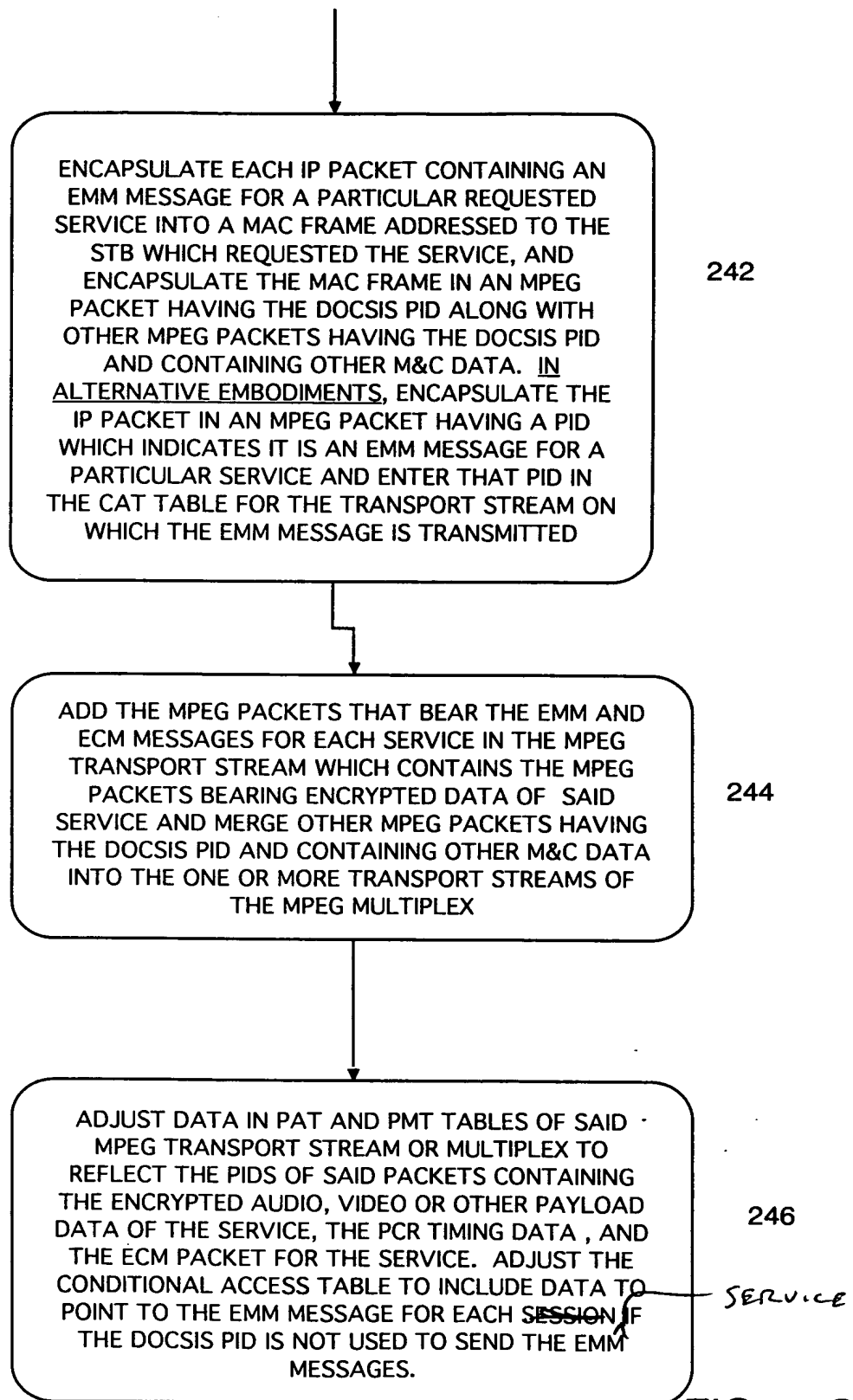


FIG. 14C

PROCESS CARRIED OUT IN STB TO RECOVER EMM AND ECM MESSAGES
FROM AN IN-BAND CHANNEL AND DECRYPT PAYLOAD
DATA OF REQUESTED SERVICE

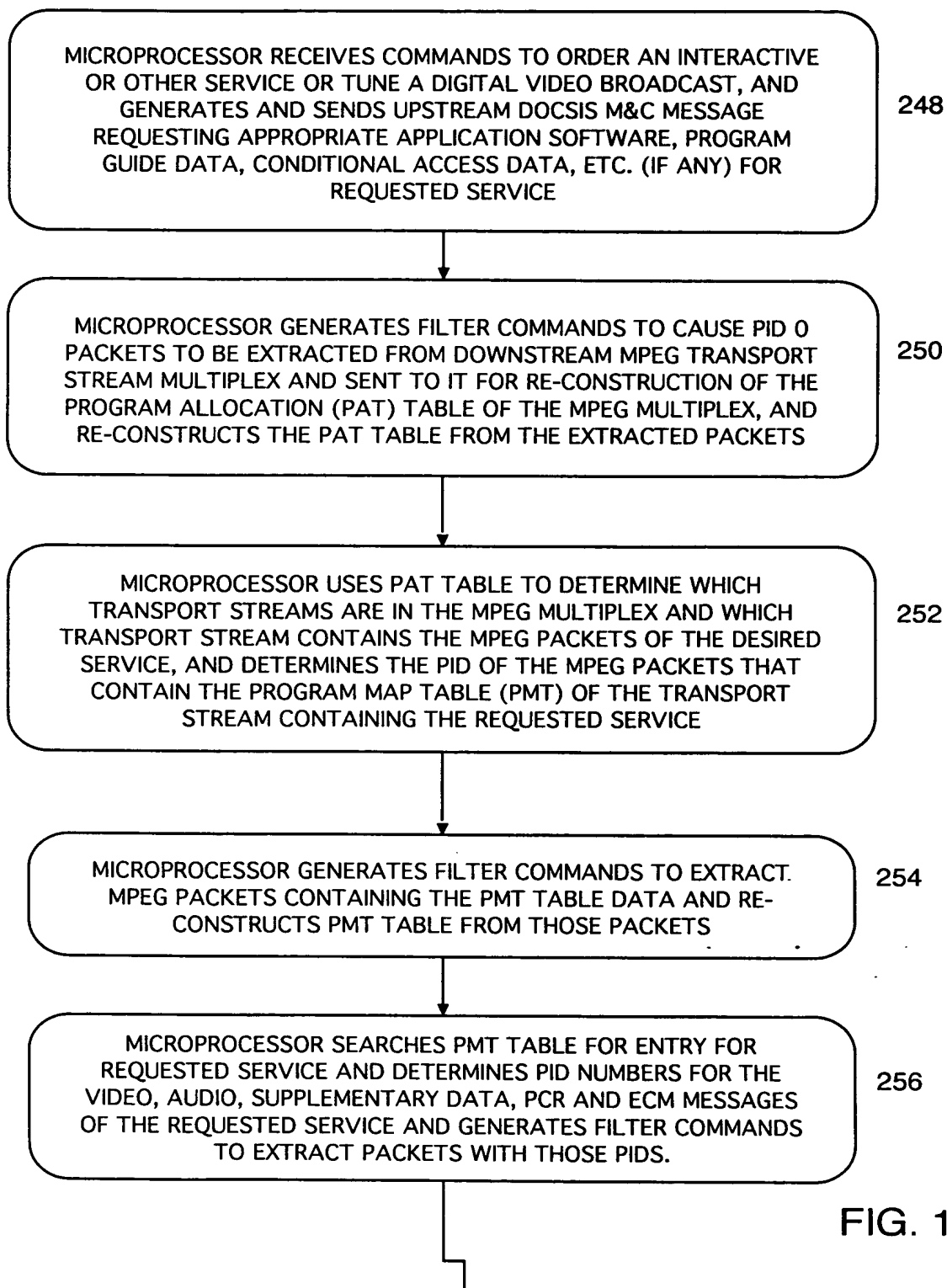


FIG. 15A

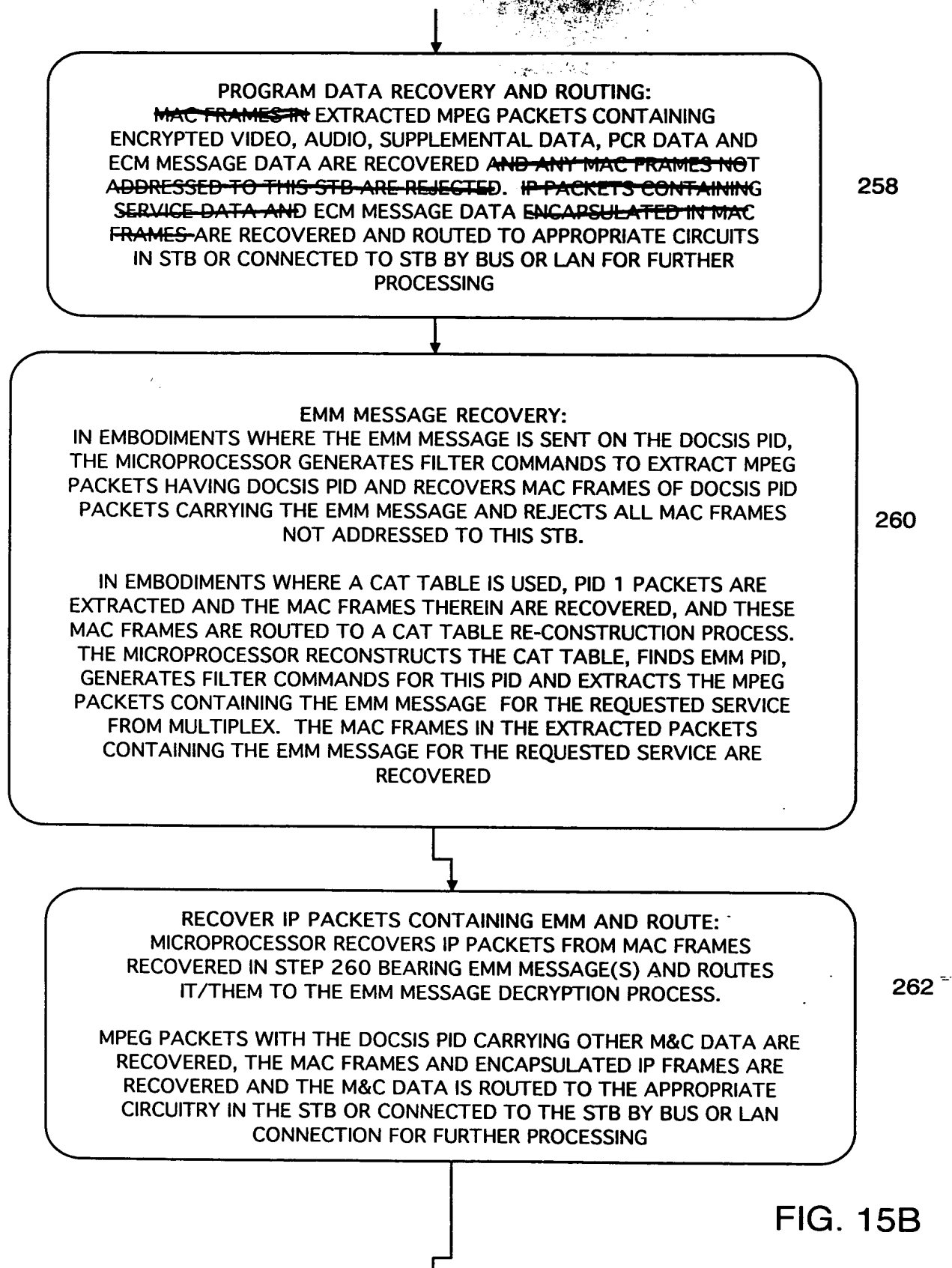


FIG. 15B

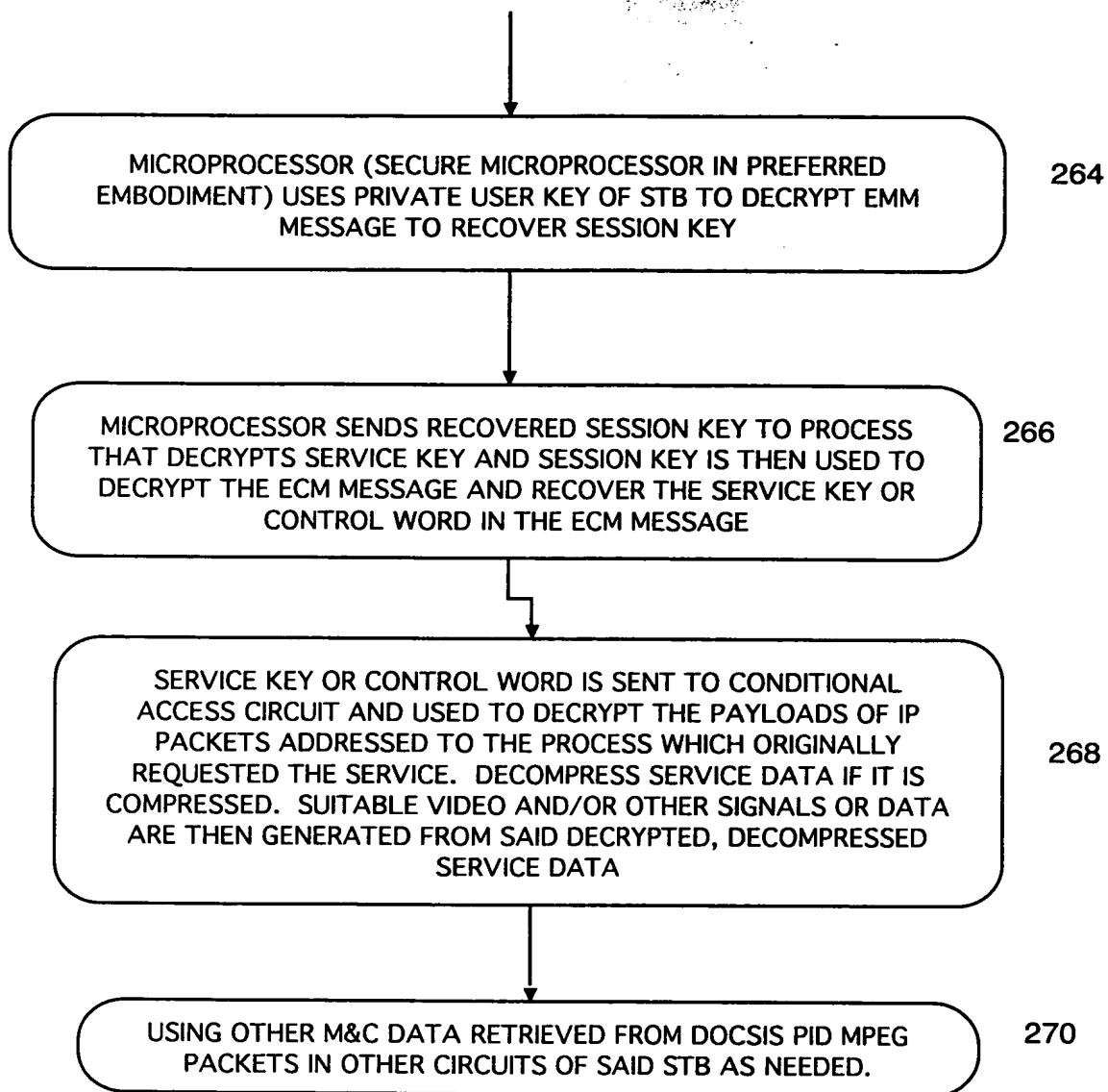


FIG. 15C

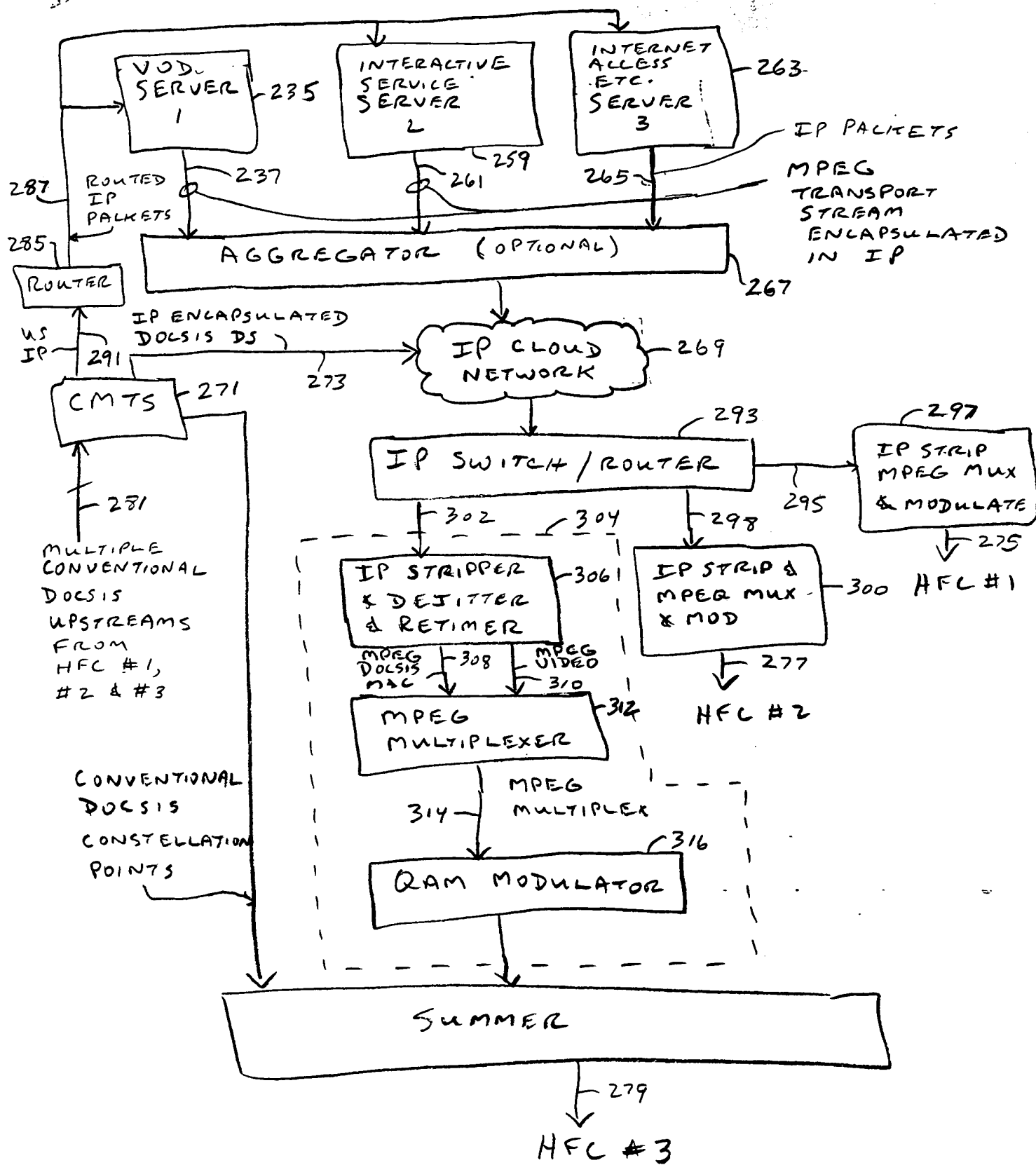


FIG. 16

PROCESS CARRIED OUT BY SIMPLE, SINGLE TUNER STB TO RECEIVE ENCRYPTED
DIGITAL VIDEO BROADCASTS

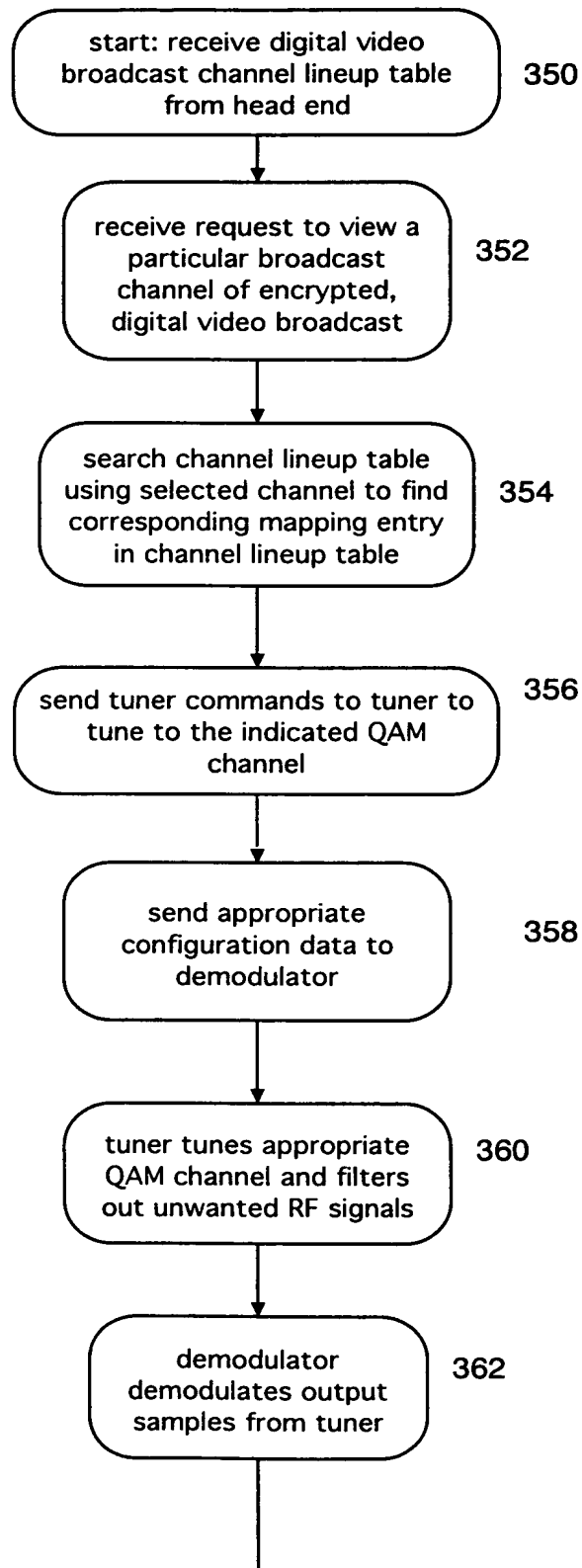


FIG. 17A

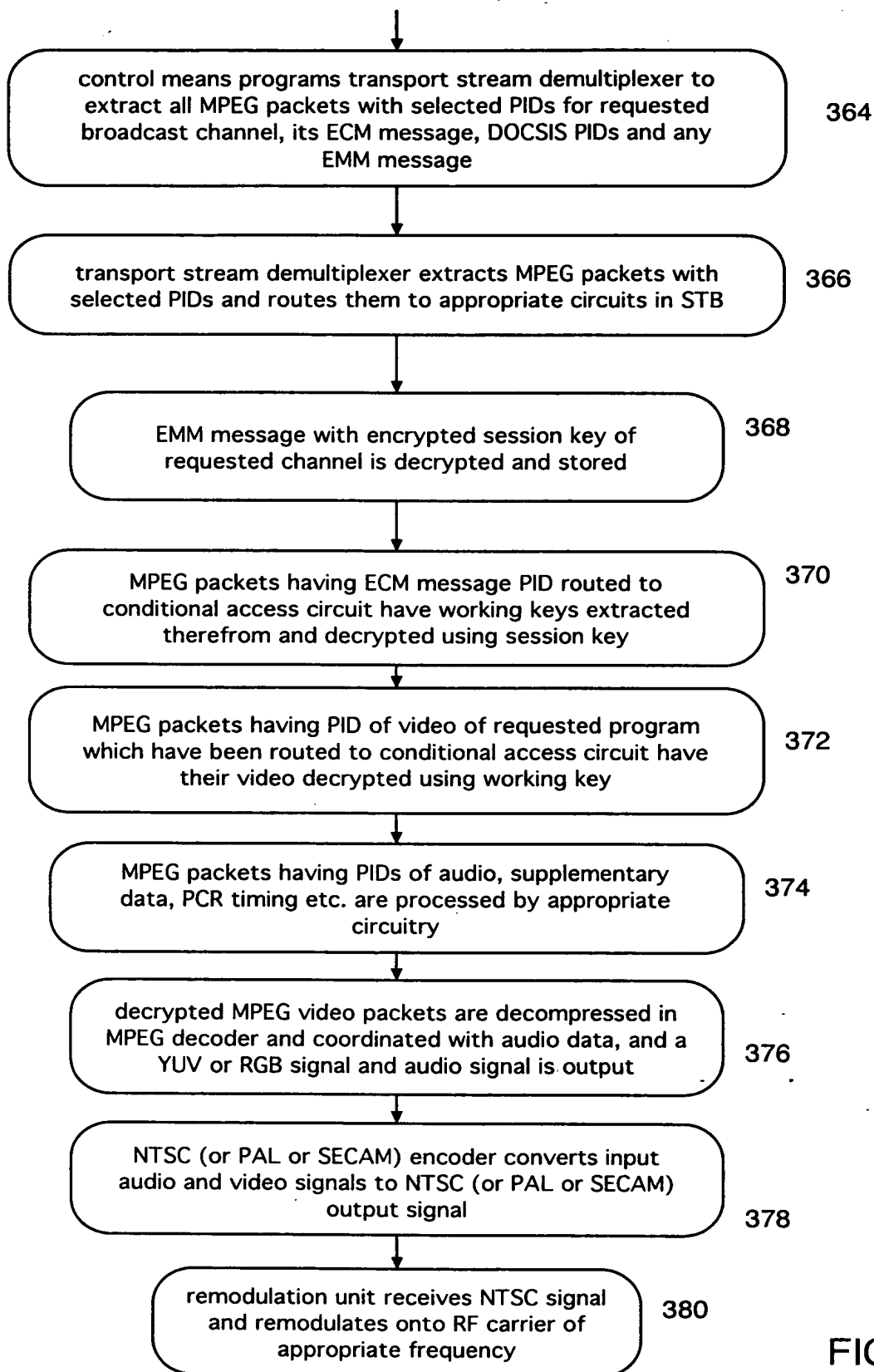
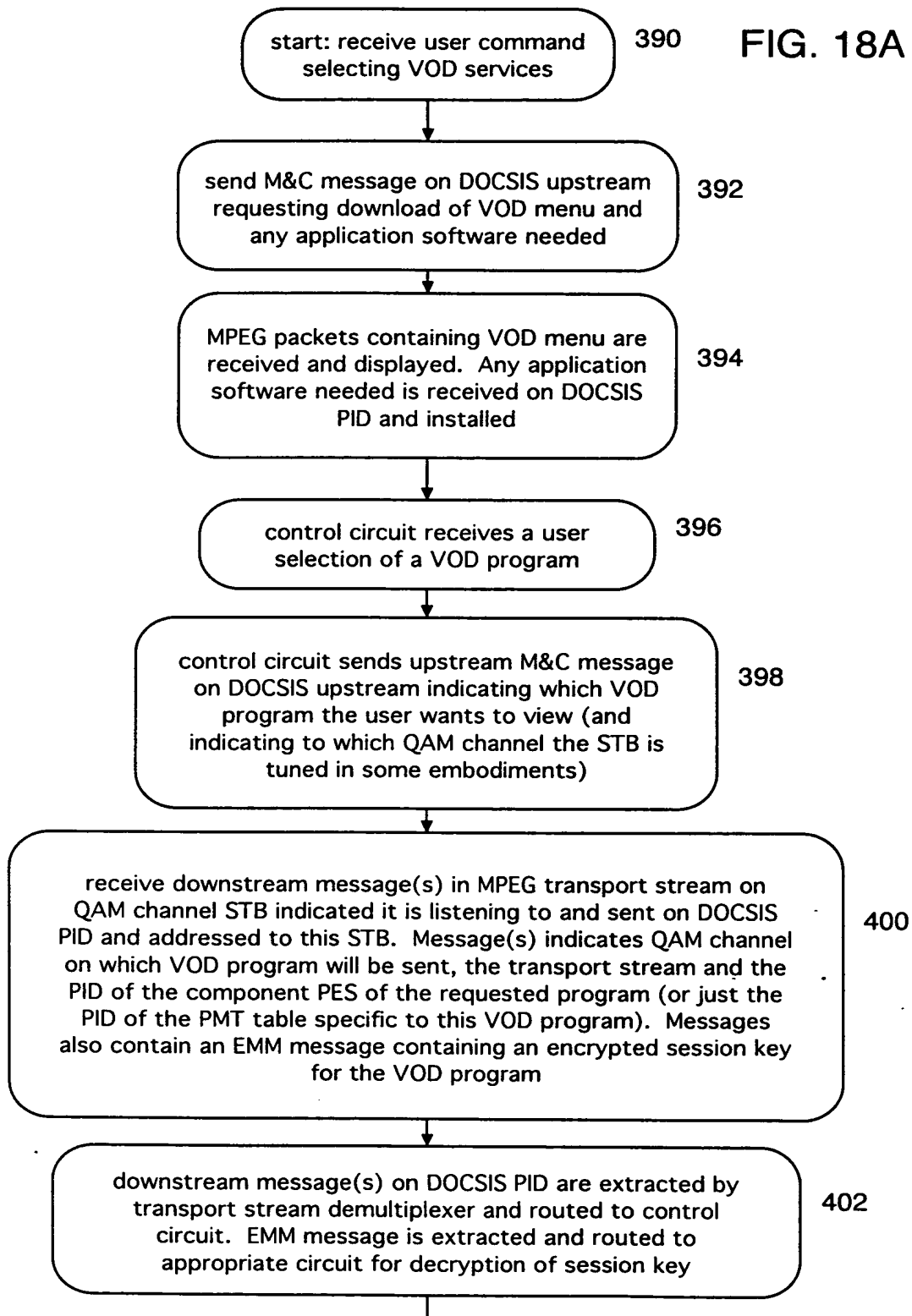


FIG. 17B

PROCESS CARRIED OUT BY SIMPLE, SINGLE TUNER STB TO RECEIVE ENCRYPTED
DIGITAL VIDEO-ON-DEMAND PROGRAMS



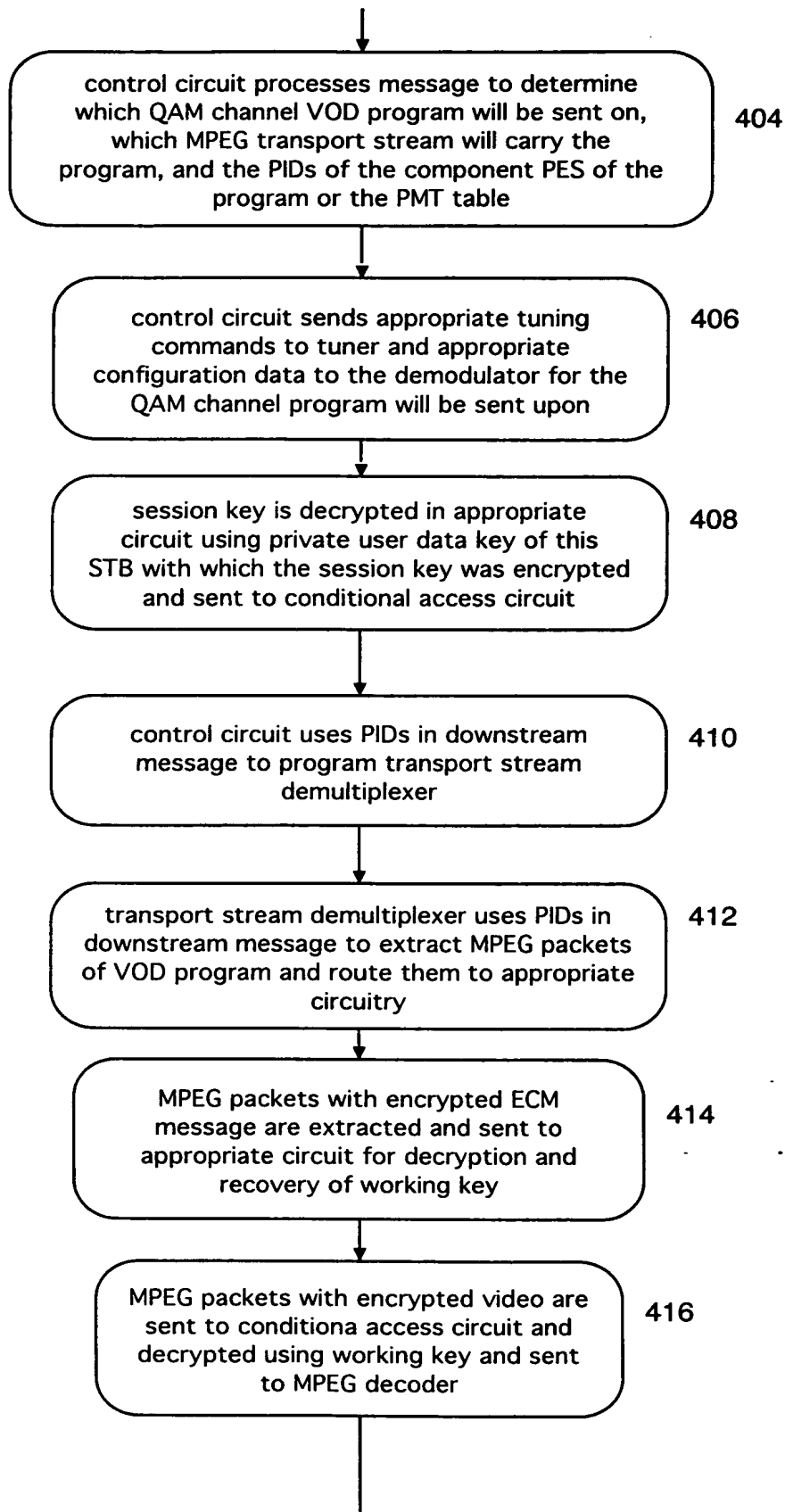
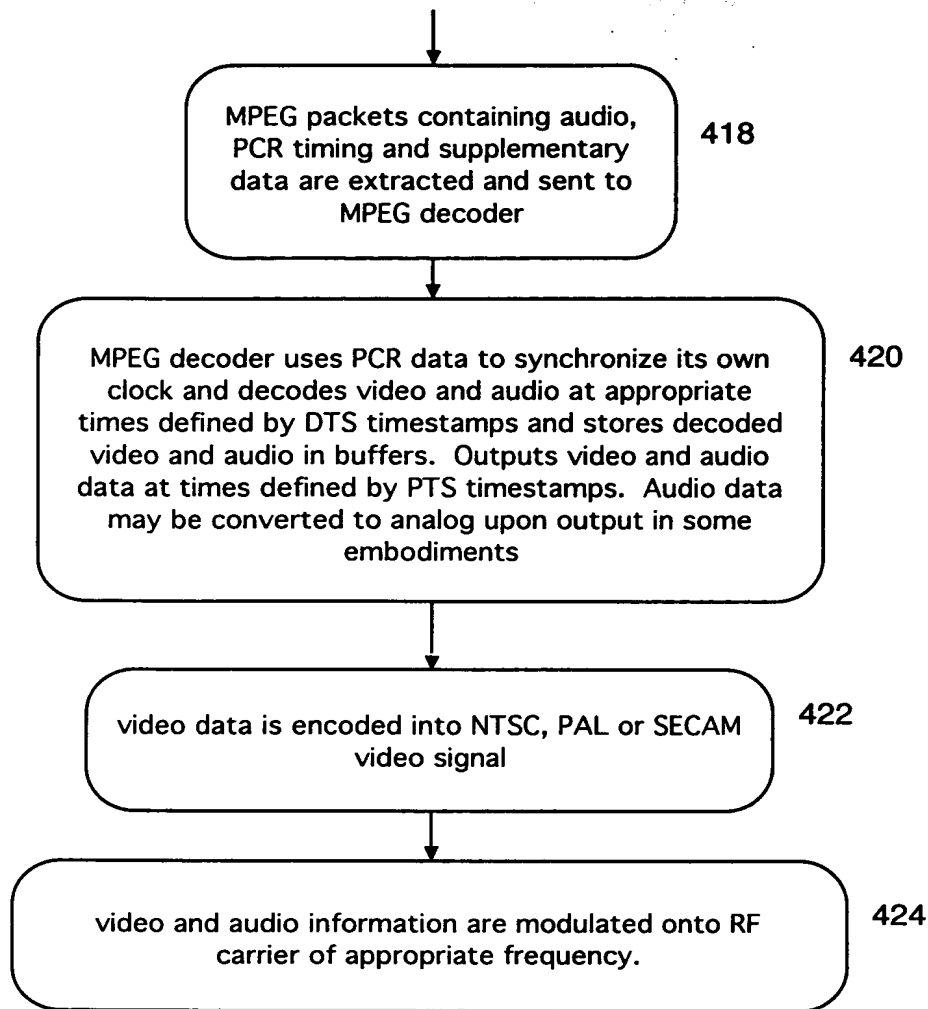


FIG. 18B

FIG. 18C



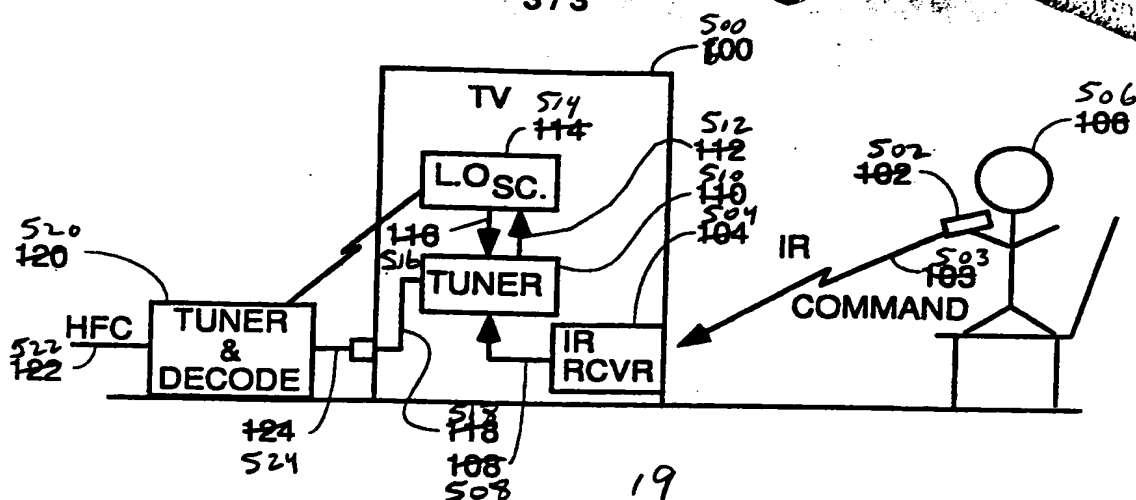


FIG. 4

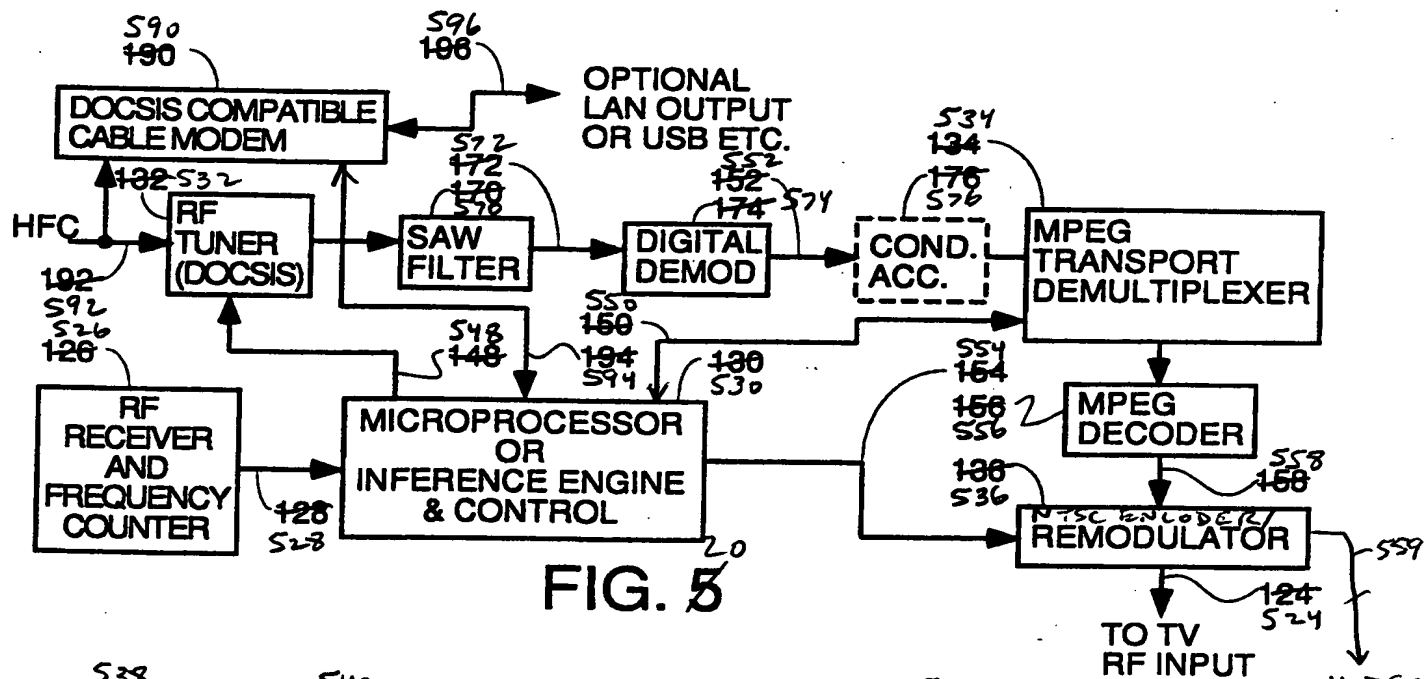


FIG. 5

LO. FREQ.	ANALOG TV CHANNEL #	CORRESPONDING DIGITAL TV CHANNEL # & FREQ.	CORRESPONDING PID	OUTPUT FREQ.
XX	AA	BB	CC	DD
YY	EE	FF	HH	II
⋮	⋮	⋮	⋮	⋮

Handwritten annotations on the diagram:

- 538 138 (above LO. FREQ.)
- 540 140 (above ANALOG TV CHANNEL #)
- 542 142 (above CORRESPONDING DIGITAL TV CHANNEL # & FREQ.)
- 544 144 (above CORRESPONDING PID)
- 546 146 (above OUTPUT FREQ.)
- 560 160 (with an arrow pointing to the first row of data)
- 562 162 (below the vertical ellipsis in the ANALOG TV CHANNEL # column)
- 566 166 (below the vertical ellipsis in the CORRESPONDING DIGITAL TV CHANNEL # & FREQ. column)
- 568 168 (below the vertical ellipsis in the CORRESPONDING PID column)
- 564 164 (below the vertical ellipsis in the OUTPUT FREQ. column)
- RF INPUT (above the table)
- VIDEO & AUDIO (to the right of the table)

FIG. 6²¹